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1 [Making operating systems more robust: Improving the reliability of commodity operating sy](#)



Michael M. Swift, Brian N. Bershad, Henry M. Levy

October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems princip**

Publisher: ACM Press

Full text available: pdf(262.78 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [inde](#)

Despite decades of research in extensible operating system technology, extensions such as dev significant cause of system failures. In Windows XP, for example, drivers account for 85% of re failures. This paper describes Nooks, a *reliability subsystem* that seeks to greatly enhance OS r the OS from driver failures. The Nooks approach is practical: rather than guaranteeing complete through a new (and incompatible) OS ...

Keywords: I/O, device drivers, protection, recovery, virtual memory

2 [Session 1: ACT: attachment chain tracing scheme for email virus detection and control](#)



Jintao Xiong

October 2004 **Proceedings of the 2004 ACM workshop on Rapid malware**

Publisher: ACM Press

Full text available: pdf(283.77 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Modern society is highly dependent on the smooth and safe flow of information over communic networks. Computer viruses and worms pose serious threats to the society by disrupting the no and collecting or destroying information without authorization. Compared to the effectiveness a worms and viruses, currently adopted defense schemes are slow to react and costly to impleme

This paper proposes an automated email virus detecti ...

Keywords: contact tracing, transmission chain, worm defense

3 [WBIA'05: ASM: application security monitor](#)



Micha Moffie, David Kaeli

December 2005 **ACM SIGARCH Computer Architecture News**, Volume 33 Issue 5

Publisher: ACM Press

Full text available: pdf(246.65 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Our Application Security Monitor (ASM) is a run-time monitor that dynamically collects execution part of a security framework that will allow us to explore different security policies aimed at identifying behavior such as Trojan horses and backdoors. In this paper, we show what type of data ASM can collect and how this data can be used to enforce a security policy. Using ASM we are able to explore different security and ...

4 Workshop on architectural support for security and anti-virus (WASSA): Using instruction based counter code injection attacks

Milena Milenković, Aleksandar Milenković, Emil Jovanov

March 2005 **ACM SIGARCH Computer Architecture News**, Volume 33 Issue 1

Publisher: ACM Press

Full text available:  pdf(283.67 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


With more computing platforms connected to the Internet each day, computer system security is a major issue. One of the major security problems is execution of malicious injected code. In this paper we propose processor extensions that allow execution of trusted instructions only. The proposed extensions block signatures in run-time. Signatures are generated during a trusted installation process, use a signature register (MISR), and stored in an ...

5 Security issues for wireless ATM networks

Danai Patiyoot

January 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.75 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

To be able to fulfil the need of user in wireless ATM, the system has to acquire features. One of the features for the wireless ATM is functionality especially the security aspect. There is so far little, if not no consideration in the developing of wireless ATM standard. Therefore a wide range of features is under consideration. This paper tried to define the features of security in wireless ATM networks considering existing fixed ATM network ...

Keywords: security, wireless ATM

6 Defensive technology: Detection of injected, dynamically generated, and obfuscated malicious code

Jesse C. Rabek, Roger I. Khazan, Scott M. Lewandowski, Robert K. Cunningham

October 2003 **Proceedings of the 2003 ACM workshop on Rapid malware WORM '03**

Publisher: ACM Press

Full text available:  pdf(240.68 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents DOME, a host-based technique for detecting several general classes of malicious executables. DOME uses static analysis to identify the locations (virtual addresses) of system call executables, and then monitors the executables at runtime to verify that every observed system call location identified using static analysis. The power of this technique is that it is simple, practical for world software, and high ...

Keywords: anomaly detection, code analysis, dynamic analysis, execution monitoring, intrusion detection, code detection, static analysis, system calls

7 Risks to the public: Risks to the public

Peter G. Neumann

July 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4

Publisher: ACM Press

Full text available:  pdf(151.77 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM Committee on Policy), plus personal contributions by others, as indicated. Opinions expressed are individual and not necessarily organizational, and all of the usual disclaimers apply. We address problems relating to software and other circumstances relating to computer systems. To economize on space, we include point-to-point online Risks Forum: (R i j) denotes RISKS vol i number j ...

8 Networks: Mobile agent-based module distribution in heterogeneous networks



Ambrus Wagner

April 2004

Proceedings of the 1st conference on Computing frontiers

Publisher: ACM Press

Full text available: pdf(280.99 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The effective use of computing resources in a heterogeneous network of computers is a field of this paper a mobile agent-based system is described for distributing modules in such a network mean either an entire task or the modules of a task or submodules created by a segmentation a module distribution and result collection are given, along with a routing algorithm that allows the agents throughout the system. ...

Keywords: distributed processing, mobile agents

9 Columns: Risks to the public in computers and related systems



Peter G. Neumann

March 2002 **ACM SIGSOFT Software Engineering Notes**, Volume 27 Issue 2

Publisher: ACM Press

Full text available: pdf(1.54 MB)

Additional Information: [full citation](#)

10 Operating systems, architectures, and networks: Using a windows attack intrusion emulator computer security awareness



Donald L. Tobin, Michael S. Ware

June 2005 **Proceedings of the 10th annual SIGCSE conference on Innovation and technology education ITiCSE '05**

Publisher: ACM Press

Full text available: pdf(648.56 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Technology has become a major part of our lives. We are entering an era where almost anyone must have certain fundamental knowledge on how to protect themselves from attacks while only describe AWARE, an emulator designed to teach either experienced or casual Windows XP users supplied tools to detect potential attacks on their system resources. Our system also has built-in educate the user during their simulated attacks.

Keywords: computer security, intrusion detection, security education

11 Intrusion detection and modeling: Design space and analysis of worm defense strategies



David Brumley, Li-Hao Liu, Pongsin Poosankam, Dawn Song

March 2006 **Proceedings of the 2006 ACM Symposium on Information, computer and communication security ASIACCS '06**

Publisher: ACM Press

Full text available: pdf(723.02 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We give the first systematic investigation of the design space of worm defense system strategies by providing a taxonomy of defense strategies by abstracting away implementation-dependent details and concentrating on the fundamental properties of each defense category. Our taxonomy the key parameters for each strategy that determine its effectiveness. We provide a theoretical

understanding how these parameters interact ...

Keywords: antibody, blacklisting, defense strategy analysis, local containment, proactive protection, propagation, worm taxonomy, worms

12 Intrusion detection and response: MET: an experimental system for Malicious Email Tracking

 Manasi Bhattacharyya, Shlomo HersHKop, Eleazar Eskin

September 2002 **Proceedings of the 2002 workshop on New security paradigms**

Publisher: ACM Press


Full text available:  [pdf\(790.18 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Despite the use of state of the art methods to protect against malicious programs, they continue to cause damage to computer systems around the world. In this paper we present MET, the Malicious Email Tracker, designed to automatically report statistics on the flow behavior of malicious software delivered both at a local and global level. MET can help reduce the spread of malicious software worldwide by replicating viruses, as well as provide further ...


Keywords: anti-virus, email attachment, email tracking, virus detection

13 Special section on data mining for intrusion detection and threat analysis: Data mining-based detectors: an overview of the columbia IDS project

 Salvatore J. Stolfo, Wenke Lee, Philip K. Chan, Wei Fan, Eleazar Eskin

December 2001 **ACM SIGMOD Record**, Volume 30 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.05 MB\)](#)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

14 Illustrative risks to the public in the use of computer systems and related technology

 Peter G. Neumann


January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(2.54 MB\)](#)


Additional Information: [full citation](#)

15 A taxonomy of computer program security flaws

 Carl E. Landwehr, Alan R. Bull, John P. McDermott, William S. Choi

September 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(3.81 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

An organized record of actual flaws can be useful to computer system designers, programmers, administrators, and users. This survey provides a taxonomy for computer program security flaws that documents 50 actual security flaws. These flaws have all been described previously in the literature in widely separated places. For those new to the field of computer security, they provide a good introduction to the characteristics of security flaws and how they ...

Keywords: error/defect classification, security flaw, taxonomy

16 Prepared testimony and statement for the record on computer virus legislation

Marc Rotenberg

March 1990 **ACM SIGCAS Computers and Society**, Volume 20 Issue 1



Publisher: ACM Press

Full text available: pdf(1.59 MB)

Additional Information: [full citation](#), [index terms](#)

17 [ANNOD: a navigator of natural-language organized \(textual\) data](#)



Robert E. Williamson

June 1985

Proceedings of the 8th annual international ACM SIGIR conference on Research development in information retrieval

Publisher: ACM Press

Full text available: pdf(830.49 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

ANNOD is the name of a system developed at the National Library of Medicine (NLM), which implements linguistic and empirical techniques that permit retrieval of natural language information in response to language queries. The system is based on Dr. Gerard Salton's SMART [1] document retrieval system implemented on a mini-computer as part of an Interactive Text Management System, ITEMS.[2] with retrieval of information from NLM's Hepatitis ...

18 [Behavior-based modeling and its application to Email analysis](#)



Salvatore J. Stolfo, Shlomo Hershkop, Chia-Wei Hu, Wei-Jen Li, Olivier Nimeskern, Ke Wang

May 2006 **ACM Transactions on Internet Technology (TOIT)**, Volume 6 Issue 2

Publisher: ACM Press

Full text available: pdf(1.25 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Email Mining Toolkit (EMT) is a data mining system that computes *behavior profiles or models* of accounts. These models may be used for a multitude of tasks including forensic analyses and detection to law enforcement and intelligence agencies, as well for as other typical tasks such as virus analysis. To demonstrate the power of the methods, we focus on the application of these models to detect the viral propagation without "c ...

Keywords: Email virus propagations, anomaly detection, behavior profiling

19 [How to withstand mobile virus attacks \(extended abstract\)](#)



Rafail Ostrovsky, Moti Yung

July 1991

Proceedings of the tenth annual ACM symposium on Principles of distributed computing '91

Publisher: ACM Press

Full text available: pdf(899.57 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

20 [Legally speaking](#)



Rosalie Steier

June 1989 **Communications of the ACM**, Volume 32 Issue 6

Publisher: ACM Press

Full text available: pdf(746.76 KB)

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